

OCVZ Series

Features

- 105°C, 2,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliance



Marking color: Blue

Specifications

Items	Performance
Category Temperature Range	-55°C ~ +105°C
Capacitance Tolerance	±20% (at 120Hz, 20°C)
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings
Tanδ (at 120Hz, 20°C)	See Standard Ratings
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings
Endurance	Test Time
	2,000 Hrs
	Capacitance Change
	Within ±20% of initial value
	Tanδ
Moisture Resistance	Less than 150% of specified value
	ESR
	Less than 150% of specified value
	Leakage Current
	Within specified value
Resistance to Soldering Heat *	Test Time
	1,000 Hrs
	Capacitance Change
	Within ±20% of initial value
	Tanδ
Ripple Current and Frequency Multipliers	Less than 150% of specified value
	ESR
	Less than 150% of specified value
	Leakage Current
	Within specified value

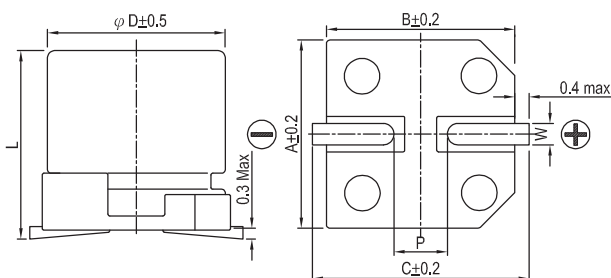
* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hours at 105°C.

* The above specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C, 90 to 95% RH for 1,000 hours. Leakage current should be tested voltage treatment*.

* For any doubt about measured values, measure the leakage current again after the following voltage treatment.
Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105 °C.

Frequency (Hz)	120 ≤ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k
Multiplier	0.05	0.3	0.7	1.0

Diagram of Dimensions



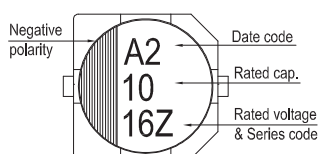
Lead Spacing and Diameter

Unit: mm

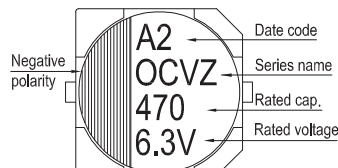
φD	L	A	B	C	W	P ± 0.2
5	5.7 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	4.4 ± 0.2	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	5.9 + 0.1/-0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	6.7 ± 0.3	8.4	8.4	9.0	0.7 ~ 1.1	3.1
8	12.0 ± 0.5	8.4	8.4	9.0	0.7 ~ 1.1	3.1
10	7.7 ± 0.3	10.4	10.4	11.0	0.7 ~ 1.3	4.7
10	9.9 + 0.1/-0.3	10.4	10.4	11.0	0.7 ~ 1.3	4.7
10	12.6 + 0.1/-0.4	10.4	10.4	11.0	0.7 ~ 1.3	4.7

MARKING

φD = 5 ~ 6.3



φD = 8 ~ 10



Standard Ratings

Dimension: $\phi D \times L$ (mm)

Ripple Current: mA/rms at 100k Hz, 105°C

W. V. (V)	Surge Voltage (V)	Capacitance (μ F)	Size $\phi D \times L$ (mm)	Tan δ (120Hz, 20°C)	L C (μ A)	E S R (m Ω /at 100k ~ 300k Hz, 20°C Max)	Rated R. C. (mA/rms at 100k Hz, 105°C)
2.5V (0E)	2.9	180	5 × 5.7	0.12	300	19	2,800
		330	6.3 × 4.4	0.12	500	16	3,180
		390	6.3 × 5.9	0.12	300	14	3,160
		560	6.3 × 5.9	0.12	300	16	3,500
			6.3 × 7.7	0.12	420	9	4,200
		680	8 × 6.7	0.12	500	20	3,370
		820	8 × 12	0.15	500	9	5,380
		1,200	10 × 7.7	0.12	600	13	4,450
		1,500	8 × 12	0.15	750	12	5,150
		2,700	10 × 12.6	0.15	1,350	9	5,600
		150	5 × 5.7	0.12	300	20	2,730
		270	6.3 × 5.9	0.12	300	15	3,160
		330	6.3 × 5.9	0.12	300	15	3,160
		390	6.3 × 7.7	0.12	468	9	4,200
		560	8 × 6.7	0.12	500	22	3,220
			8 × 12	0.15	500	9	5,380
		1,000	10 × 7.7	0.12	800	14	4,300
		1,200	8 × 12	0.15	960	12	4,700
		1,500	8 × 12	0.15	1,200	12	4,700
		2,200	10 × 12.6	0.15	1,760	9	5,700
6.3V (0J)	7.2	120	5 × 5.7	0.12	300	21	2,660
		220	6.3 × 4.4	0.12	500	18	3,000
			6.3 × 5.9	0.12	300	15	3,160
		330	6.3 × 5.9	0.12	415	17	3,390
			6.3 × 7.7	0.12	623	9	4,200
		390	8 × 6.7	0.12	491	22	3,220
		820	8 × 12	0.15	1,033	13	4,700
			10 × 7.7	0.12	1,033	14	4,300
		1,500	10 × 12.6	0.15	1,890	10	5,560
10V (1A)	12.0	68	5 × 5.7	0.12	300	23	2,540
		120	6.3 × 5.9	0.12	300	22	2,600
		150	6.3 × 7.7	0.12	450	15	3,400
		270	8 × 6.7	0.12	500	22	3,220
		470	10 × 7.7	0.12	940	19	3,800
16V (1C)	18.0	39	5 × 5.7	0.12	300	27	2,350
			6.3 × 5.9	0.12	300	24	2,460
		68	6.3 × 5.9	0.12	300	25	2,440
		100	6.3 × 5.9	0.12	320	24	2,490
		150	8 × 6.7	0.12	500	22	3,220
		220	10 × 7.7	0.12	704	22	3,450
		270	8 × 12	0.15	864	12	4,850
		330	10 × 12.6	0.15	1,056	12	5,300
		470	10 × 12.6	0.15	1,504	10	6,100
		820	10 × 12.6	0.12	2,624	12	5,400
		1,000	10 × 12.6	0.12	3,200	12	5,400



Standard Ratings

Dimension: ϕ D×L(mm)

Ripple Current: mA/rms at 100k Hz, 105°C

W. V. (V)	Surge Voltage (V)	Capacitance (μF)	Size ϕ D×L(mm)	Tanδ (120Hz, 20°C)	L C (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20°C Max)	Rated R. C. (mA/rms at 100k Hz, 105°C)
20V(1D)	23.0	120	6.3 × 5.9	0.12	480	25	3,200
		390	8 × 12	0.12	1,560	14	4,950
		560	10 × 9.9	0.12	2,240	18	4,100
			10 × 12.6	0.12	2,240	12	5,600
25V(1E)	29.0	56	6.3 × 5.9	0.12	280	30	2,800
		180	8 × 12	0.12	900	16	4,650
		220	10 × 9.9	0.12	1,100	20	3,800
		330	10 × 12.6	0.12	1,650	14	5,000
35V(1V)	40.0	22	6.3 × 5.9	0.12	154	35	2,600
		82	8 × 12	0.12	574	20	4,000
		120	10 × 12.6	0.12	840	18	4,400

Part Numbering System

OCVZ Series	820μF	±20%	6.3V	Carrier Tape		10 ϕ × 7.7L	Pb-free and PET coating case
OVZ	821	M	0J	TR	-	1008	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.